



**WBFBP-03B Plastic-Encapsulate Diode**

**DW84C2V4NND03-DW84C39NND03**

ZENER DIODE

**DESCRIPTION**

Epitaxial planar type Silicon diode

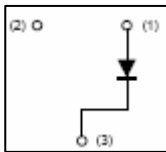
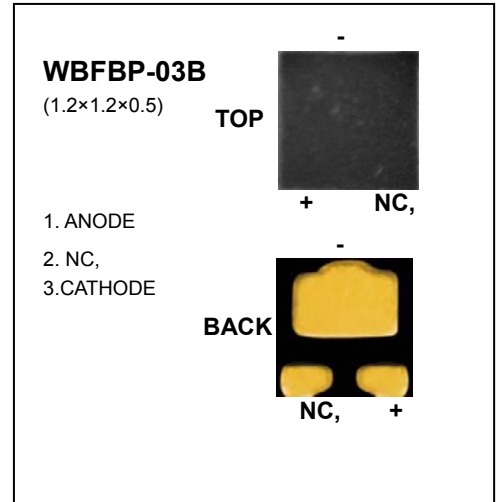
**FEATURES:**

- Ultra-Small Surface Mount Package
- Planar Die Construction
- Lead Free/RoHS Compliant (Note 1)

**APPLICATION**

ZENER DIODE

For portable equipment: (i.e. Mobile phone,MP3, MD,CD-ROM, DVD-ROM,Note book PC, etc.)



**Maximum Ratings(T<sub>a</sub>=25°C unless otherwise specified)**

Characteristic	Symbol	Value	Unit
Forward Voltage @ I <sub>F</sub> = 10mA	V <sub>F</sub>	0.9	V
Power Dissipation (Note 1)	P <sub>D</sub>	150	mW
Thermal Resistance, Junction to Ambient Air	R <sub>θJA</sub>	833	°C/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 ~ +150	°C

Notes: 1. No purposefully added lead.

**Electrical Characteristics(T<sub>a</sub>= 25°C unless otherwise specified )**

Type Number	Marking Code	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Current		Temperature Coefficient of Zener Voltage @ I <sub>ZT</sub> = 5mA mV/°C	
		V <sub>Z</sub> @I <sub>ZT</sub>			I <sub>ZT</sub>	Z <sub>ZT</sub> @I <sub>ZT</sub>	Z <sub>ZK</sub> @I <sub>ZK</sub>	I <sub>ZK</sub>	I <sub>R</sub>	@V <sub>R</sub>	Min	Max
		Nom(V)	Min(V)	Max(V)	mA	Ω		mA	uA	V		
DW84C2V4NND03	RB	2.4	2.2	2.6	5.0	100	600	1.0	50	1.0	-3.5	0
DW84C2V7NND03	RC	2.7	2.5	2.9	5.0	100	600	1.0	20	1.0	-3.5	0
DW84C3V0NND03	RD	3.0	2.8	3.2	5.0	95	600	1.0	20	1.0	-3.5	0
DW84C3V3NND03	RE	3.3	3.1	3.5	5.0	95	600	1.0	5.0	1.0	-3.5	0
DW84C3V6NND03	RF	3.6	3.4	3.8	5.0	90	600	1.0	5.0	1.0	-3.5	0
DW84C3V9NND03	RG	3.9	3.7	4.1	5.0	90	600	1.0	3.0	1.0	-3.5	0
DW84C4V3NND03	RH	4.3	4.0	4.6	5.0	90	600	1.0	3.0	1.0	-3.5	0
DW84C4V7NND03	R1	4.7	4.4	5.0	5.0	80	600	1.0	3.0	2.0	-3.5	0.2
DW84C5V1NND03	R2	5.1	4.8	5.4	5.0	60	500	1.0	2.0	2.0	-2.7	1.2
DW84C5V6NND03	R3	5.6	5.2	6.0	5.0	40	480	1.0	1.0	2.0	-2.0	2.5
DW84C6V2NND03	R4	6.2	5.8	6.6	5.0	10	400	1.0	3.0	4.0	0.4	3.7
DW84C6V8NND03	R5	6.8	6.4	7.2	5.0	15	150	1.0	2.0	4.0	1.2	4.5
DW84C7V5NND03	R6	7.5	7.0	7.9	5.0	15	80	1.0	1.0	5.0	2.5	5.3
DW84C8V2NND03	R7	8.2	7.7	8.7	5.0	15	80	1.0	0.7	5.0	3.2	6.2
DW84C9V1NND03	R8	9.1	8.5	9.6	5.0	15	80	1.0	0.5	6.0	3.8	7.0
DW84C10NND03	R9	10	9.4	10.6	5.0	20	100	1.0	0.2	7.0	4.5	8.0
DW84C11NND03	P1	11	10.4	11.6	5.0	20	150	1.0	0.1	8.0	5.4	9.0
DW84C12NND03	P2	12	11.4	12.7	5.0	25	150	1.0	0.1	8.0	6.0	10.0
DW84C13NND03	P3	13	12.4	14.1	5.0	30	150	1.0	0.1	8.0	7.0	11.0
DW84C15NND03	P4	15	13.8	15.6	5.0	30	170	1.0	0.1	10.5	9.2	13.0
DW84C16NND03	P5	16	15.3	17.1	5.0	40	200	1.0	0.1	11.2	10.4	14.0
DW84C18NND03	P6	18	16.8	19.1	5.0	45	200	1.0	0.1	12.6	12.4	16.0
DW84C20NND03	P7	20	18.8	21.2	5.0	55	225	1.0	0.1	14.0	14.4	18.0
DW84C22NND03	P8	22	20.8	23.3	5.0	55	225	1.0	0.1	15.4	16.4	20.0
DW84C24NND03	P9	24	22.8	25.6	5.0	70	250	1.0	0.1	16.8	18.4	22.0
DW84C27NND03	PA	27	25.1	28.9	2.0	80	250	0.5	0.1	18.9	21.4	25.3
DW84C30NND03	PB	30.0	28.0	32.0	2.0	80	300	0.5	0.1	21.0	24.4	29.4
DW84C33NND03	PC	33.0	31.0	35.0	2.0	80	300	0.5	0.1	23.1	27.4	33.4
DW84C36NND03	PD	36.0	34.0	38.0	2.0	90	325	0.5	0.1	25.2	30.4	37.4
DW84C39NND03	PE	39.0	37.0	41.0	2.0	130	350	0.5	0.1	27.3	33.4	41.2